

Nixon &amp; Vanderhye P.C. (12/95)

**RULE 63 (37 C.F.R. 1.63)**  
**DECLARATION AND POWER OF ATTORNEY**  
**FOR PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

A Photonic Crystal Fibre and a Method for its Production

the specification of which (check applicable box(s)):

is attached hereto  
 was filed on \_\_\_\_\_ as U.S. Application Serial No. \_\_\_\_\_ Atty Dkt. No. P2828/USW  
 was filed as PCT International application No. PCT/GB00/01249 on 31<sup>st</sup> March 2000  
 and (if applicable to U.S. or PCT application) was amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. 1.56. I hereby claim foreign priority benefit under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed or, if no priority is claimed, before the filing date of this application

Priority Foreign Application(s):

| Application Number | Country | Day/Month/Year Filed |
|--------------------|---------|----------------------|
| 9907655 6          | GB      | 01-Apr-1999          |

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below  
 Application Number Date/Month/Year Filed

I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT International applications listed above or below and, insofar as the subject matter of each of the claims of this application is not disclosed in such prior applications in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application

Prior U.S./PCT Application(s):  
 Application Serial No. Day/Month/Year Filed Status: patented  
 PCT/GB00/01249 31<sup>st</sup> March 2000 pending, abandoned PENDING

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And I hereby appoint NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8<sup>th</sup> Floor, Arlington, VA 22201-4714, telephone number (703) 816-4000 (to whom all communications are to be directed), and the following attorney(s) (or the same attorney(s) individually and collectively) my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent: Arthur R. Crawford, 25327; Larry S. Nixon, 25640; Robert A. Vanderhye, 27076; James T. Hosmer, 30184; Robert W. Fans, 31352; Richard G. Besta, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32105; Bryan H. Davidson, 30251; Stanley C. Sajper, 27393; Leonard C. Mitchard, 28009; Duane M. Byers, 33363; Jeffrey H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burman, Jr., 29366; Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; William J. Griffin, 31260; Robert A. Molan, 29834; B. J. Sedoff, 36663; James D. Berquist, 34776; Updeep S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331 \*

|                                    |   |                    |         |                   |       |                     |
|------------------------------------|---|--------------------|---------|-------------------|-------|---------------------|
| 1.                                 | Inventor's Signature:<br>Inventor:              | Philip<br>(first)  | S<br>MI | RUSSELL<br>(last) | Date: | GB<br>(citizenship) |
| Residence: (city)                  | Bath  | (state/country) GB |         |                   |       |                     |
| Post Office Address:<br>(Zip Code) | Shepherds Mead, Southstoke, Bath<br>BA2 7EB     |                    |         |                   |       |                     |
| 2.                                 | Inventor's Signature:<br>Inventor:              | Timothy<br>(first) | A<br>MI | BIRKS<br>(last)   | Date: | GB<br>(citizenship) |
| Residence: (city)                  | Bath  | (state/country) GB |         |                   |       |                     |
| Post Office Address:<br>(Zip Code) | 14 Horsecombe Brow, Combe Down, Bath<br>BA2 5QY |                    |         |                   |       |                     |

FOR ADDITIONAL INVENTORS, check box  and attach sheet with same information and signature and date for each.

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Nixon & Vanderhye P.C. (12/85)

Page 2

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The specification of which (check applicable box(s)):

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Priority Foreign Application(s):

| Application Number | Country | Day/Month/Year Filed |
|--------------------|---------|----------------------|
| 9907855 8          | GB      | 01-Apr-1999          |

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below

Application Number Date/Month/Year Filed

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Priority U.S./PCT Application(s):

| Application Serial No. | Day/Month/Year Filed        | Status: patented<br>pending, abandoned |
|------------------------|-----------------------------|--|
| PCT/GB00/01249         | 31 <sup>st</sup> March 2000 | PENDING                                |

I

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And I hereby appoint NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8<sup>th</sup> Floor, Arlington, VA 22201-4714, telephone number (703) 816-4000 (to whom all communications are to be directed), and the following attorneys thereof (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent: Arthur R. Crawford, 25327; Larry S. Nixon, 25640; Robert A. Vanderhye, 27076; James T. Horner, 30184; Robert W. Fans, 31352; Richard G. Basba, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spenger, 27393; Leonard C. Milchard, 29009; Duane M. Byers, 33353; Jeffry H. Neison, 30481; John R. Lastova, 33149; H. Warren Burnam, Jr. 29365; Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; William J. Griffin, 31260; Robert A. Molan, 29835; B. J. Sadoff, 36663; James A. Berquist, 34776; Updegraff S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331.

|                                 |  |                   |               |  |
|---------------------------------|--|-------------------|---------------|--|
| 1.                              | Inventor's Signature:                        | Date:             |               |  |
| Inventor                        | Philip (first) S MI                          | RUSSELL (last) GB | (citizenship) |  |
| Residence: (city)               | Bath   | (state/country)   | GB            |  |
| Post Office Address: (Zip Code) | Shepherds Mead, Southstoke, Bath BA2 7EB     |                   |               |  |
| 2.                              | Inventor's Signature:                        | Date:             |               |  |
| Inventor                        | Timothy (first) A MI                         | BIRKS (last) GB   | (citizenship) |  |
| Residence: (city)               | Bath   | (state/country)   | GB            |  |
| Post Office Address: (Zip Code) | 14 Horsecombe Brow, Combe Down, Bath BA2 5QY |                   |               |  |

FOR ADDITIONAL INVENTORS, check box  and attach sheet with same information and signature and date for each.

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Page 2

|     |                       |   |    |                 |               |
|-----|-----------------------|---|----|-----------------|---------------|
| 3.  | Inventor's Signature: | Date: _____   |    |                 |               |
|     | Inventor:             | Jonathan  | C  | KNIGHT          | GB            |
|     | Residence: (city)     | (first)   | MI | (last)          | (citizenship) |
|     | Post Office Address:  | Bath  |    | (state/country) | GB            |
|     | (Zip Code)            | Canteen Cottage, Canteen Lane, Willow, Bath BA2 8PY |    |                 |               |
| 4.  | Inventor's Signature: | Date: 10/10/01                                      |    |                 |               |
|     | Inventor:             | Brian   | J  | MANGAN          | GB            |
|     | Residence: (city)     | (first)   | MI | (last)          | (citizenship) |
|     | Post Office Address:  | Bath  |    | (state/country) | GB            |
|     | (Zip Code)            | 2 Station Road, Lower Weston, Bath BA1 3DX GB3      |    |                 |               |
| 5.  | Inventor's Signature: | Date: _____   |    |                 |               |
|     | Inventor:             |   |    |                 |               |
|     | Residence: (city)     | (first)   | MI | (last)          | (citizenship) |
|     | Post Office Address:  |   |    | (state/country) |               |
|     | (Zip Code)            |   |    |                 |               |
| 6.  | Inventor's Signature: | Date: _____   |    |                 |               |
|     | Inventor:             |   |    |                 |               |
|     | Residence: (city)     | (first)   | MI | (last)          | (citizenship) |
|     | Post Office Address:  |   |    | (state/country) |               |
|     | (Zip Code)            |   |    |                 |               |
| 7.  | Inventor's Signature: | Date: _____   |    |                 |               |
|     | Inventor:             |   |    |                 |               |
|     | Residence: (city)     | (first)   | MI | (last)          | (citizenship) |
|     | Post Office Address:  |   |    | (state/country) |               |
|     | (Zip Code)            |   |    |                 |               |
| 8.  | Inventor's Signature: | Date: _____   |    |                 |               |
|     | Inventor:             |   |    |                 |               |
|     | Residence: (city)     | (first)   | MI | (last)          | (citizenship) |
|     | Post Office Address:  |   |    | (state/country) |               |
|     | (Zip Code)            |   |    |                 |               |
| 9.  | Inventor's Signature: | Date: _____   |    |                 |               |
|     | Inventor:             |   |    |                 |               |
|     | Residence: (city)     | (first)   | MI | (last)          | (citizenship) |
|     | Post Office Address:  |   |    | (state/country) |               |
|     | (Zip Code)            |   |    |                 |               |
| 10. | Inventor's Signature: | Date: _____   |    |                 |               |
|     | Inventor:             |   |    |                 |               |
|     | Residence: (city)     | (first)   | MI | (last)          | (citizenship) |
|     | Post Office Address:  |   |    | (state/country) |               |
|     | (Zip Code)            |   |    |                 |               |

20050 - STYLIZED SIGNATURE

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The specification of which (check applicable box(s))

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 was filed on \_\_\_\_\_ as U.S. Application Serial No. \_\_\_\_\_ Atty Dkt. No. P2826/USW  
 was filed as PCT International application No. PCT/GB00/01249 on 31<sup>st</sup> March 2000  
 and (if applicable to U.S. or PCT application) was amended on \_\_\_\_\_

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Priority Foreign Application(s):

| Application Number | Country | Day/Month/Year Filed |
|--------------------|---------|----------------------|
| 9907855.8          | GB      | 01-Apr-1999          |

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| Application Number | Day/Month/Year Filed |
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| Application Serial No. | Day/Month/Year Filed        | Status: patented pending, abandoned |
|------------------------|-----------------------------|-------------------------------------|
| PCT/GB00/01249         | 31 <sup>st</sup> March 2000 | PENDING                             |

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|  |                    |      |                                 |
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| 1. Inventor's Signature:                 | Date:              |      |                                 |
| Inventor:                                | Philip (first)     | S MI | RUSSELL (last) GB (citizenship) |
| Residence: (city)                        |                    |      |                                 |
| Post Office Address: (Zip Code)          |                    |      |                                 |
| Bath                                     | (state/country) GB |      |                                 |
| Shepherds Mead, Southstoke, Bath BA2 7EB |                    |      |                                 |

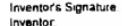
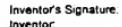
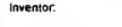
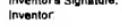
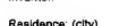
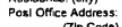
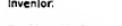
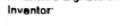
|  |                    |      |                               |
|--|--------------------|------|-------------------------------|
| 20<br>Inventor's Signature:                  | Date: 8 Jan 2002   |      |                               |
| Inventor:                                    | M J. BIRKS (first) | S MI | BIRKS (last) GB (citizenship) |
| Residence: (city)                            |                    |      |                               |
| Post Office Address: (Zip Code)              |                    |      |                               |
| Bath (B3)                                    | (state/country) GB |      |                               |
| 14 Horsecombe Brow, Combe Down, Bath BA2 5QY |                    |      |                               |

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Page 2

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|--|--|---|
| 3.   | Inventor's Signature:<br> | Date: _____   |
|  | Residence: (city)<br>Post Office Address:<br>(Zip Code)  | (first) C KNIGHT (last) GB<br>Bath (state/country) GB<br>Canteen Cottage, Canteen Lane, Wellow, Bath<br>BA2 8PY |
| 4.   | Inventor's Signature:<br> | Date: _____   |
|  | Residence: (city)<br>Post Office Address:<br>(Zip Code)  | (first) J MANGAN (last) GB<br>Bath (state/country) GB<br>2 Station Road, Lower Weston, Bath<br>BA1 3DX          |
| 5.   | Inventor's Signature:<br> | Date: _____   |
|  | Residence: (city)<br>Post Office Address:<br>(Zip Code)  | (first) MI (last) (citizenship)<br>(state/country)  |
| 6.  | Inventor's Signature:<br> | Date: _____   |
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Priority Foreign Application(s).

| Application Number | Country | Day/Month/Year Filed |
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| 9907655.6          | GB      | 01-Apr-1998          |

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|-----------------------------------|----------------------|--|
|-----------------------------------|----------------------|--|

| Application Serial No. | Day/Month/Year Filed | PENDING |
|------------------------|----------------------|---------|
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| PCT/GB00/01249 | 31 <sup>st</sup> March 2000 | PENDING |
|----------------|-----------------------------|---------|
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 101 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And I hereby appoint NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8<sup>th</sup> Floor, Arlington, VA 22201-4714, telephone number (703) 516-4000 (to whom all communications are to be directed), and the following attorneys thereof (of the same address) individually and collectively my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent: Arthur R. Crawford, 25327; Larry S. Nixon, 26540; Robert A. Vanderhye, 27076; James T. Hosmer, 30174; Robert W. Farn, 31352; Richard G. Busha, 22770; Mark E. Nusbaum, 32244; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Speoner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33383; Jeffrey H. Nelson, 30481; John R. Lastovic, 33148; H. Warren Burnam, Jr. 29366; Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Byers, 33483; Alan M. Kagen, 36178; William J. Griffin, 31260; Robert A. Molan, 29834; B. Ladoff, 36663; James D. Berquist, 34778; Updegraff S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331.\*

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|    |   |                            |         |   |                     |

FOR ADDITIONAL INVENTORS, check box  and attach sheet with same information and signature and date for each.

Nixon &amp; Vanderhye P.C. (12/95)

**RULE 63 (37 C.F.R. 1.63)**  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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|     |   |  |         |                  |             |                     |
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| 3.  | Inventor's Signature:<br>Inventor:                      | Jonathan<br>(first)  | C<br>MI | KNIGHT<br>(last) | Date: _____ | GB<br>(citizenship) |
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